

U.S. Department of Transportation

Federal Aviation Administration



Service Difficulty Reporting

October 12, 1997 - October 18, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- II Domestic Service Difficulty Report
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model

ISSUE 97-42

VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

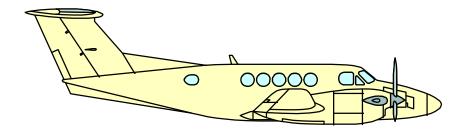
Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029 Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

blake_mcdonald@mmacmail.jccbi.gov



SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

SIGNIFICANT OCCURRENCE REPORT

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT N
261	3194P	BELL	ALLSN			OIL SUMP	COKED	9130	8/31/97
OPA	45788	206L1	250C28				NR 6-7 BEARINGS	1101	EOPA9704
	DROPPED FROM	115 PSI TO 30 PSI. WHI	LE LANDING, BOTH	READINGS DROPPEI	O TO ZERO. DURING	R OTHER ADVERSE COND G THIS TIME PERIOD, OIL ' WED LAST BEARINGS FLO	TEMP AND TOT SHOW	ED NORMAL.	ON LANDING, NOTE
310	230H	BOLKMS	LYC			FUEL MANIFOLD	LEAK		9/25/97
	7134	BK117A4	LTS101650B1			430137601	NR 1 ENGINE	960	97ZZZX4336
		IN TUBING BETWEEN N VERHAUL. ALLIED SIC				OMPARTMENT. SUBMITT	ER STATED THE TUBI	NG BETWEEN	NOZZLES SHOULD B
5111	6285A	CESSNA		HARTZL		BUSHING	BROKEN		7/15/97
	33085	182		HC82V*			BLADE PITCH		97ZZZX4388
	PILOT REPORTEI PITCH THAN OTI		VER LOSS. INVESTIG	GATION FOUND PITC	H CHANGE PHENOI	LIC BUSHING ON ONE BLA	ADE BROKEN ALLOWI	NG BLADE TO) MOVE TO LOWER
3222	9129M	CESSNA				YOKE	FAILED	3000	9/26/97
	U20601529	U206E				12436231	NLG		97ZZZX4335
		DUTY NOSE FORK SHE HE YOKE SHOWED NO				RUT. PN 1243620-1 NOSE C F.	EAR HUB WAS NOT B	ROKEN AND	DID NOT FAIL NOR DI
5210	116K	CESSNA				HINGE PIN	NICKED	5720	9/23/97
COZA	5500149	550			551123053	551123017	PASSENGER DOO	R	97ZZZX4367
	DOWN AND OUT		VING EXCESSIVE PLA		·	R HINGE PIN RETAINING I TATED THIS AREA AND A			
7240	84EA	CESSNA	PWA			GROMMET ASSY	BROKEN	6342	9/19/97
SYA	5500484	550	JT15D4		31003061	310501601	COMB LINER	2843	97ZZZX4345
						TO FALL INSIDE COMBUS ENGINE HAS BEEN DISAS			
6140		DHAV	PWA	HARTZL		SWITCH	BROKEN		7/7/97
		DHC6300	PT6A27	HCB3TN3		KX5116	RT BETA		CA970722020
	AUTOFATHER SY		THAT THE BLUE BET			ALONG WITH A SIGNIFIC GE INCREASE IN ENGINE			

SIGNI	FICANT OC	CCURRENCE	REPORT				10/12/97 TO 10/18/9	97 ISSUE	97-42	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DA	
6220	8047L	HUGHES				RING	MISINSTALLED		9/19/97	
	470699	TH55A				269A1329	DROOP STOP		97ZZZX4	341
		NUAL INSPECTION, DISC O THIS INSPECTION.	COVERED THE DROC	DP STOP RING WAS PI	REVIOUSLY INSTAI	LLED INVERTED. THE MA	IN ROTOR HEAD WAS A	SSEMBLED	ΓHREE YEAR	S AND 60
5510		LUSCOM				STABILIZER	CORRODED	3400	9/1/97	
		8A					HORIZONTAL STAB	}	97ZZZX4	328
3240	ACCESS TO WING	GS FOR INSPECTIONS. PIPER			SCOTT	MASTER CYLINDER	MISSERVICED		9/24/97	
CF4R	187909175	PA18150				451209	BRAKE		97ZZZX4	1334
	DURING NEXT FI BRAKES WERE 'F	LIGHT. UPON LANDING	G, BRAKES WERE 'LO DLL THE ACFT. SUBI	OCKED UP'. ACFT GROMITTER SUSPECTS TH	OUND LOOPED DUR HE MECHANIC DID	TOLD PILOT THE BRAKES RING LANDING DAMAGIN NOT USE THE PROPER SEF	G LT WING. AFTER ACF	T SET FOR A	BOUT AN HO	
3234	54C	SKRSKY				CONTROL VALVE	MISWIRED		9/15/97	
	760348	S76B				0911077004	LANDING GEAR		97ZZZX4	351
	ARKWIN IND, IN THE GEAR, DISC	C., PN 0911077-004, SIK OVERED WITH THE GE	ORSKY PN 76650-0280 AR HANDLE IN THE	02-0911077-004, SIKO DOWN POSITION, TH	RSKY PN 76650-0280 E GEAR WOULD RE	SET' BUTTON WHICH KEF 2-104, SN 0557A WAS INST ETRACT, AND EXTEND WH LVE WAS INSTALLED ANI	ALLED IN HELICOPTER. IEN IN THE UP POSITION	WHEN ATT	EMPTING TO RTHER INVE	OPERATE

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: OCTOBER 12, 1997 TO OCTOBER 18, 1997

PART NAME					YEAR				
	ACFT MODEL	Total	90	93	94	95	96	97	
CONTROL VALV	Έ								
0911077004	S76B	1	-	-	-	-	-	1	
TOTAL		1						1	
YOKE									
12436231	U206E	1	-	-	-	-	-	1	
TOTAL		1						1	
RING									
269A1329	269C	2	1	-	-	-	-	1	
	TH55A	1	-	-	-	-	-	1	
TOTAL		3	1					2	
GROMMET ASS	Y								
310501601	550	1	-	-	-	-	-	1	
TOTAL		1						1	
FUEL MANIFOLI	D								
430137601	222U	1	-	-	-	-	-	1	
	BK117A4	1	-	-	-	-	-	1	
	BK117B1	1	-	1	-	-	-	-	
	BK117B2	5	-	-	-	1	3	1	
TOTAL		8		1		1	3	3	
MASTER CYLINI	DER								
451209	PA18150	1	-	-	-	-	-	1	
TOTAL		1						1	
HINGE PIN									
551100015								_	

550

551123017

1

Page:

Run Date 23-Oct-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: OCTOBER 12, 1997 TO OCTOBER 18, 1997

PART NAME					YEAR				
PART NUMBER	ACFT MODEL	Total	90	93	94	95	96	97	
TOTAL -		1						1	
SWITCH KX5116	DHC6300	3	-	1	1	_	-	1	
TOTAL -		3		1	1			1	

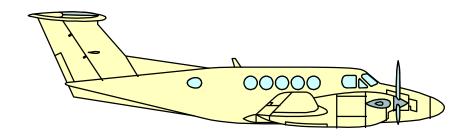
END OF REPORT

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DOMESTIC SERVICE DIFFICULTY REPORT



DOMESTIC	SERVICE	DIFFICIL T	V REPORT	SIIMMARV.	. AIRCRAFT
			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE	
PER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO	
140	3197W	ВЕЕСН				COMBUSTION TUBE	CRACKED	3114	10/2/97	
	TH427	58			D83A28	45C40	HEATER		97ZZZX4385	
		KED HEATER FOR COM COMBUSTION TUBE P				R WAS DISASSEMBLED. LC	CATED SEVERAL CRA	ACKS AT HEA	ATER WELDS.	
710	46MA	ВЕЕСН				PUMP	FAILED	1145	9/5/97	
	LD413	65B80				442CW	LT ENG VAC		97ZZZX4386	
	VACUUM PUMP F	FAILED UNDER NORMA	AL OPERATING CON	DITIONS. SUBMITTEI	R STATED THIS PUN	MP HAD AN EXCEPTIONALI	LY LONG SERVICE LIF	E.		
222	9129M	CESSNA				YOKE	FAILED	3000	9/26/97	
	U20601529	U206E				12436231	NLG		97ZZZX4335	
****		DUTY NOSE FORK SHE IE YOKE SHOWED NO S				RUT. PN 1243620-1 NOSE GE F.	EAR HUB WAS NOT BE	ROKEN AND	DID NOT FAIL NOR DII	
3231	67886	CESSNA				ROD END	BROKE		9/15/97	
	402C0435	402C				ARB4EDUS	RT GEAR DOOR		97ZZZX4331	
	RIGHT LANDING TROUBLE.	GEAR DOOR CONTROL	L ROD BROKE AT RO	DD END, DOOR WOUL	LD HANG DOWN WI	TH GEAR UP. INSTALLED	NEW CONTROL ROD A	AND RIGGED	. NO FURTHER	
713	401SX	CESSNA				ELBOW	NO THREADS		7/4/97	
77A	402C0447	402C				MS208222	RT INDUCTION		P77A9700183	
	PILOT REPORTED DURING FLIGHT, RT MAP STARTED DROPPING. PILOT GOT WORRIED, SHUT DOWN RT ENGINE AND FEATHERED PROPELLER. INVESTIGATION FOUND ELBOW ON INDUCTION TUBE FOR MAP GAUGE BLEW OUT. FIRST 5 THREADS OF ELBOW MISSING, REPLACED ELBOW. GROUND RUNS. ALL OPS CHECK GOOD. (X)									
120	7947Q	CESSNA	CONT			VALVE	FAILED	1580	8/25/97	
TVA	402B0397	402B	TSIO520EB				LT TURBO		97ZZZX4329	
	LEFT ENGINE WE	ENT TO NORMALLY AS	PIRATED, DUE TO L	T TURBO VALVE FAII	LURE.					
210	116K	CESSNA				HINGE PIN	NICKED	5720	9/23/97	
OZA	5500149	550			551123053	551123017	PASSENGER DOOR	3	97ZZZX4367	
****	551125017 113521.021.021.021.021.021.021.021.021.021.0									
510		LUSCOM				STABILIZER	CORRODED	3400	9/1/97	
		8A					HORIZONTAL STA	ιB	97ZZZX4328	
****	PARKED OVER G					ΓΙΡ AND SKINS FOR REPAIR SPECTIONS CONDUCTED A			`	

DOMESTIC	SERVICE DIFFICI	ILTY REPORT SUMMARY.	. AIRCRAFT
		II, I I NO, FIJN I SIJIVIJVIAN I -	• AIN(NAN I

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
240	2355Н	PIPER			SCOTT	MASTER CYLINDER	MISSERVICED		9/24/97
F4R	187909175	PA18150				451209	BRAKE		97ZZZX4334
****	DURING NEXT FI BRAKES WERE 'F	LIGHT. UPON LANDING	G, BRAKES WERE 'LC DLL THE ACFT. SUB!	OCKED UP'. ACFT GRO MITTER SUSPECTS TH	OUND LOOPED DUR HE MECHANIC DID 1	FOLD PILOT THE BRAKES V LING LANDING DAMAGING NOT USE THE PROPER SERV	LT WING. AFTER AC	FT SET FOR A	ABOUT AN HOUR, THE
230	54757	PIPER				BOLT	FAILED	8979	9/26/97
	277554068	PA23250			1624004	AN17727	DRAG LEG LINK		97ZZZX4332
		G GREASE TO CENTER LOCK SPRING UPPER V		*		EAD OF BOLT SLID OUT .25 ING OUT.	INCH, AND BECAME	WEDGED IN	FITTING PN 19155-03
130	2104U	PIPER				SWITCH	FAULTY	4000	10/2/97
F1R	287990327	PA28181				587829	ALTERNATOR		97ZZZX4380
	BYPASSING ALT		UCTUATIONS WENT	AWAY. PROBLEM C		D OVERVOLTAGE REGULA SWITCH. SUBMITTER STAT			
5521	282JN	PIPER				SPAR	CRACKED	6557	9/24/97
	317552005	PA31350				40075	ELEV/SPAR & RIB		97ZZZX4382
	WAS VISIBLE. TI ATTACHED TO T	HE END RIB HAD A CRA	ACK WHERE THE SKI	IN STIFFENER CHAN	NEL IS RIVETED TO	KED INBOARD OF THE OUT IT AND ONE SKIN STIFFEN EE ANCHOR ATTACHES HA	ER CHANNEL END W	AS BROKEN (OFF WHERE IT
011	4108D	PIPER				STARTER	FAILED	1788	9/12/97
	318352018	PA31350				MHB4104	RT ENGINE		97ZZZX4384
		O SPARKS FROM FORW REMOVED AND REPLA				ED RT ENGINE STARTER A	ND FOUND FIELD CC	OIL HOUSING	LOOSE AND BINDING
	20002	DIDEED				IDLER PULLEY	BEARING FAILED		9/21/97
150	28893	PIPER							
150	28893 327940123	PA32300					AIR COND		97ZZZX4333
150	327940123 AFTER LANDING	PA32300			PULLEY COULD HA	VE HUNG UP IN FLY-WHEE		ENGINE INSTA	
	327940123 AFTER LANDING	PA32300 , THE IDLER PULLEY A			PULLEY COULD HA	VE HUNG UP IN FLY-WHEE VALVE		ENGINE INSTA	
234	327940123 AFTER LANDING FAILURE. RECO	PA32300 , THE IDLER PULLEY A MMEND NEW BEARING			PULLEY COULD HA		L RING GEAR. NEW I	ENGINE INSTA	ALLED JUST PRIOR TO
2150 2234 2SMR	327940123 AFTER LANDING FAILURE. RECOI 825WS 468408059	PA32300 , THE IDLER PULLEY A MMEND NEW BEARING PIPER	BE INSTALLED AT I	ENGINE OVERHAUL.		VALVE 592610	L RING GEAR. NEW I	ENGINE INSTA	ALLED JUST PRIOR TO 10/2/97
234 SMR	327940123 AFTER LANDING FAILURE. RECOI 825WS 468408059	PA32300 THE IDLER PULLEY A MMEND NEW BEARING PIPER PA46310P	BE INSTALLED AT I	ENGINE OVERHAUL.		VALVE 592610	L RING GEAR. NEW I	ENGINE INSTA	ALLED JUST PRIOR TO 10/2/97
234	327940123 AFTER LANDING FAILURE. RECOR	PA32300 THE IDLER PULLEY A MMEND NEW BEARING PIPER PA46310P SELECTOR VALVE INT	BE INSTALLED AT I	ENGINE OVERHAUL.		VALVE 592610 N CONTINUOUSLY.	L RING GEAR. NEW I O-RING BROKEN MLG SELECTOR	ENGINE INSTA	ALLED JUST PRIOR TO 10/2/97 97ZZZX4390

DOMESTIC	SERVICE	DIFFICUL	TV REPORT	SIIMMARY.	- HELICOPTERS
		5 1711 1 1 1 (I I NEEDNI	SUMMANI	• 1115171(7)

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE			PART COND	TT		
OPER	SERIAL NO		ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO	
430		BELL				POWER SUPPLY	DEFECTIVE		10/2/97	
IEEA		206L3				A490ATSDF1428	DC SYS		HEEA0011167	
	POWER SUPPLY	WAS RECEIVED WITH	RATTLE INSIDE.							
2550	6197N	BELL			BREEZE	HOIST	MALFUNCTION		9/25/97	
	52014	206L4				HL16600170	RESCUE		97ZZZX4340	
		NING PERIOD, THE CAI RNED TO THE MANUF				LURE OF THE CABLE WHI LOW.	LE A CREW MEMBER W	AS BEING L	OWERED. THE HOIST	
2562	2758N	BELL			NARCO	ELT	MALFUNCTION		10/2/97	
IEEA	45267	206L1				ELT910	COCKPIT		HEEA0011190	
	ELT STAYS ON A	ND WILL NOT SHUT C	FF.							
3414	3181Y	BELL				INDICATOR	READS LOW		10/2/97	
IEEA	3772	206B3				8000	COCKPIT AIR SPD		HEEA0011160	
	AIR SPEED INDIC	CATES LOW OUT OF TO	OLERANCE BELOW 80) KNOTS.						
3424	513EH	BELL				INDICATOR	INOPERATIVE		10/2/97	
HEEA	45421	206L1				9551A	COCKPIT T&B		HEEA0011144	
	T & B INDICATOR INOPERATIVE. TIME SINCE REPAIR 46:35.									
3452	2163Y	BELL				TRANSPONDER	MALFUNCTION		10/6/97	
HEEA	3496	206B3				066106202	COCKPIT ATC		HEEA0011204	
		HEN SELECTED TO 01: INSTALLED Q415 HEA				HANGED. CLEANED CODI	NG SWITCHES. REPLAC	ED BROKE	N FACEPLATE	
3452	2270G	BELL				TRANSPONDER	MALFUNCTION		10/6/97	
HEEA	3610	206B3			KT76	066106200	COCKPIT ATC		HEEA0011209	
HEEA	TRANSPONDER IDENT LIGHT WEAK AND OFF FREQUENCY. VERIFIED WEAK REPLY LIGHT PHOTODETECTOR V301. UNIT WAS ON FREQUENCY. REPLACED V301 PHOTODETECTOR. CLEANED CODING SWITCHES. BENCH CHECK GOOD.									
3452	104PH	BELL				TRANSPONDER	MALFUNCTION		10/6/97	

DOME	STIC SERV	ICE DIFFICU	LTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18	/97 ISSUE	97-42	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. D. OPER C	ATE ONT NO
3452	2278V	BELL				TRANSPONDER	LOW POWER		9/30/97	
HEEA	3632	206B3				C2080A	PULSE OSC		HEEA00	11121
	TRANSPONDER I	LOW POWER OUT.								
3452	406EH	BELL				TRANSPONDER	FAULTY		10/6/97	
HEEA	45183	206L1			KT76	066106200	COCKPIT ATC		HEEA00	11205
						DIRTY, POSSIBLE CAUSII NEEDED. BENCH CHECK		SWITCHES TO	REPAIR.	
3452	1077A	BELL				TRANSPONDER	KNOB BROKEN		10/7/97	
HEEA	45382	206L1			KT76	066106200	COCKPIT ATC		HEEA00	11213
	TRANSPONDER I SPECS.	KNOB BROKEN. PERFOR	RMED PRELIMINARY	Y INSPECTION, REPLA	ACED KNOB. BEGA	N BENCH CHECK AND FO	OUND REPLY LIGHT FLA	ASHING AND	PULSE WIDTI	H OUT OF
3452	31821	BELL				TRANSPONDER,	WONT TEST		10/6/97	
HEEA	51076	206L3			KT76	066106200	COCKPIT ATC		HEEA00	11206
		RFORMED PRELINARY I CH CHECK GOOD.	INSPECTION, FOUND	O V101 BAD, REPLACI	ED V101 CAVITY TU	BE. REPAIRED. ALSO RI	EPLACED V301 PHOTOC	ELL DUE TO	BEING INOPE	RATIVE.
5320	5007Y	BELL				CHANNEL	MIS MFG		10/1/97	
HEEA	45192	206L1				206031314125S	FUSELAGE		HEEA00	11130
						DISTANCE FOR THE RIVE VE NO EDGE DISTANCE.	TS IN THE CENTER ARE	A APPROXIM	IATELY 10" FI	ROM AFT
5320	5007Y	BELL				SUPPORT	MALFORMED		10/1/97	
HEEA	45192	206L1				206031124113S	FUSELAGE		HEEA00	11129
	SUPPORT MALFO	DRMED IN MANUFACTU	JRING PROCESS. TW	VISTED AND INCONS	ISTENT PARALLELS	. UPPER RADIAL LEG BE	ENT TOO MUCH AT CEN	TER SECTION	1.	
5320	8594X	BELL				SHELL ASSY	CORRODED		10/2/97	
HEEA	51531	206L3				206033100291	FUSELAGE		HEEA00	11132
	SHELL ASSY IS CORRODED. (SEPARATED BEYOND LIMITS AT THIS STATION.									
5530	2275Q	BELL				VERTICAL FIN	CORRODED		10/2/97	
HEEA	3625	206B3				206020113127A	TAILBOOM		HEEA00	11188
	VERTICAL FIN C	ORRODED AT TOP.								

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18/9	97 ISSUE	97-42 ZAC-32		
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
5530	5005F	BELL				FIN ASSY	CRACKED		9/30/97		
HEEA	45176	206L1				206020113117	V STAB		HEEA0011125		
	FIN ASSY CRACK	ED.									
5530	3207Q	BELL				FIN ASSY	MIS DRILLED		10/2/97		
HEEA	51540	206L3				206020113163	TAILBOOM		HEEA0011189		
	FIN ASSY MIS-DF	RILLED HOLES.									
5530	6160Y	BELL				FIN ASSY	GROOVED		9/30/97		
HEEA	51609	206L3				206020113163	V STAB		HEEA0011124		
	FIN ASSY GROOV	VED BEYOND LIMITS.									
6320	8588X	BELL				INDICATOR	FAILED		10/2/97		
HEEA	51486	206L3				206075678107	XMSN OIL TEMP		HEEA0011143		
	OIL LEAKING INTERNALLY - TEMP. NEEDLE STICKS.										
6320	62127	BELL				SHAFT	WORN		10/2/97		
HEEA	52023	206L4			206040004115	357950111452	M/R GR BOX		HEEA0011195		
	SHAFT SPLINES V	WORN MIC. READING .5	518. REPLACED WITH	H SERVICEABLE SHA	FT.						
6330	2761N	BELL				LINK ASSY	SEPARATED		10/2/97		
HEEA	45277	206L1				206033554101	M/R XMSN		HEEA0011173		
	LINK ASSY SEPA	RATED DETERIORATEI	D BEARINGS.								
6330	1081T	BELL				FLEXURE	CRACKED		10/2/97		
HEEA	45411	206L1				206033516101	M/R XMSN		HEEA0011191		
	FLEXURE CRACK	XED.									
6330	5742N	BELL				LINK ASSY	BUSHING FAILED		10/2/97		
HEEA	45477	206L1				206033503001	M/R XMSN		HEEA0011175		
	BUSHING ON UPPER END MOVED AGAINST SPINDLE.										
6330	3905B	BELL				LINK ASSY	DEBONDED		10/2/97		
HEEA	45598	206L1				206033554101	M/R XMSN		HEEA0011174		
	UPPER BEARING	RUBBER COATING CO	MING OFF.								

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	ICOPTERS	10/12/97 TO 10/18/	97 ISSUE	97-42 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6330	515KA	BELL				STOP ASSY	UNBONDED		10/2/97
HEEA	51048	206L3				206033518007	M/R XMSN		HEEA0011172
	RUBBER UNBON	DED (WORN AND DET	ERIORATED) .						
6330	31801	BELL				STOP ASSY	UNBONDED		10/2/97
HEEA	51074	206L3				206033518007	M/R XMSN		HEEA0011171
	RUBBER UNBON	DED (WORN AND DETE	ERIORATED)						
7261	3194P	BELL	ALLSN			OIL SUMP	COKED	9130	8/31/97
EOPA	45788	206L1	250C28				NR 6-7 BEARINGS	1101	EOPA9704
****	DROPPED FROM	115 PSI TO 30 PSI. WHI	LE LANDING, BOTH	READINGS DROPPED	TO ZERO. DURIN	OR OTHER ADVERSE CONI G THIS TIME PERIOD, OIL WED LAST BEARINGS FL	TEMP AND TOT SHOWE	D NORMAL.	ON LANDING, NOTED
7313	50046	BELL	ALLSN			NOZZLE	MIS MFG		10/6/97
HEEA	45173	206L1	250C28B		23033185	23031866	NR 2 SEAL BORE		HEEA0011201
	RECEIVING INSP	ECTION REVEALED: EX	XCESSIVE RUNOUT .	020 ON NR2 NOZZLE	SEAL BORE.				
7314	2245Y	BELL	ALLSN			PUMP	SHAFT WORN	11881	10/2/97
HEEA	45751	206L1	250C28B			3881005	FUEL PUMP		HEEA0011198
	FOUND DRIVE SI	HAFT AND GEAR SPLIN	E WEAR.						
7320	6160Y	BELL	ALLSN			ACTUATOR	FAILED		10/2/97
HEEA	51609	206L3	250C30P			206062721109	ENG CONTROL		HEEA0011187
	ACTUATOR WIL	L NOT MOTOR IN EITH	ER DIRECTION.						
7412	6161A	BELL	ALLSN			EXCITER	INTERMITTENT		10/2/97
HEEA	51611	206L3	250C30P			49522	ENGINE		HEEA0011194
	EXCITER INTERM	MITTENT SPARK.							
7712	8591X	BELL				TORQUEMETER	STICKS		10/2/97
HEEA	51495	206L3				206075739103	COCKPIT		HEEA0011145
	TORQUE METER	NEEDLE STICKS THRO	UGHOUT SCALE.						

OMESTIC SERVICE BITTECETT REFORM SCHOOL TERMS							97-42	ZAC-327	
REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO		
2268G	BELL				INDICATOR	READS HIGH		10/2/97	
3603	206B3				206075187003	ENG OIL PRESS		HEEA00	11154
INDICATOR REA	DING 5 PSI HIGH.								
22751	BELL				INDICATOR	READS HIGH		10/2/97	
3627	206B3				206075677103	OIL PRESS		HEEA00	11165
OIL PRESSURE IN	NDICATING HIGH.								
102PH	BELL				TARSYN	SHORTED		10/2/97	
30899	212				2593996333	AUTO FLIGHT		HEEA00	11152
TARSYN INTERN	IALLY SHORTED.								
102PH	BELL				TARSYN	SHORTED		10/2/97	
30899	212				2593996333	COCKPIT AUTO F	LT	HEEA00	11151
TARSYN INTERN	IALLY SHORTED.								
27805	BELL				INDICATOR.	STICKS		10/2/97	
31106	212				124044	FUEL PRESS		HEEA00	11146
INDICATOR INTE	ERMITTENTLY STICKS	AT 30 PSI.							
	BELL				PANEL	SEPARATED		10/2/97	
	212				205032815037A	FUSELAGE		HEEA00	11134
PANEL SEPARAT	ED BEYOND LIMITS AT	Γ THIS STATION.							
98W	BELL				INDICATOR	READS HIGH	365	10/13/97	
35100	212				209070262101	ENG OIL		HAIGJQ	R0144
ENG OIL TEMP PI	RESS INDICATOR READ	OS HIGH. REPLACED	WITH NEW PART FR	OM BELL.					
8045T	BELL				CONTROL UNIT	DEFECTIVE		10/1/97	
28101	214ST				51576003	DC SYS		HEEA00	11128
DC CONTROL UN	NIT DEFECTIVE. GENER	RATOR WOULD NOT	COME ON LINE. TIM	IE SINCE REPAIR 19	:55.				
6957Y	BELL				STARTER	INOPERATIVE	75	10/3/97	
28139	214ST				214060056103	START/GEN		HEEA00	11200
STARTER INOPE	RATIVE. KICKS OUT AI	FTER SIX MINUTES.							
	REG. NO SERIAL NO 2268G 3603 INDICATOR REA 22751 3627 OIL PRESSURE IN 102PH 30899 TARSYN INTERN 102PH 30899 TARSYN INTERN 27805 31106 INDICATOR INTERN PANEL SEPARAT 98W 35100 ENG OIL TEMP P 8045T 28101 DC CONTROL UN 6957Y 28139	REG. NO SERIAL NO ACFT MAKE ACFT MODEL 2268G BELL 3603 206B3 INDICATOR READING 5 PSI HIGH. 22751 BELL 3627 206B3 OIL PRESSURE INDICATING HIGH. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 27805 BELL 31106 212 INDICATOR INTERMITTENTLY STICKS BELL 212 PANEL SEPARATED BEYOND LIMITS AT 1980 98W BELL 35100 212 ENG OIL TEMP PRESS INDICATOR READ 8045T BELL 28101 214ST DC CONTROL UNIT DEFECTIVE. GENERAL 6957Y BELL 28139 BELL 214ST	REG. NO SERIAL NO ACFT MODEL ENG MDL 2268G BELL 3603 206B3 INDICATOR READING 5 PSI HIGH. 22751 BELL 3627 206B3 OIL PRESSURE INDICATING HIGH. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 27805 BELL 31106 212 INDICATOR INTERMITTENTLY STICKS AT 30 PSI. BELL 212 PANEL SEPARATED BEYOND LIMITS AT THIS STATION. 98W BELL 35100 212 ENG OIL TEMP PRESS INDICATOR READS HIGH. REPLACED 8045T BELL 28101 214ST DC CONTROL UNIT DEFECTIVE. GENERATOR WOULD NOT	REG. NO SERIAL NO ACFT MAKE SERIAL NO ACFT MODEL ENG MDL PROP MDL 2268G BELL 3603 206B3 INDICATOR READING 5 PSI HIGH. 22751 BELL 3627 206B3 OIL PRESSURE INDICATING HIGH. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 27805 BELL 31106 212 INDICATOR INTERMITTENTLY STICKS AT 30 PSI. BELL 212 PANEL SEPARATED BEYOND LIMITS AT THIS STATION. 98W BELL 35100 212 ENG OIL TEMP PRESS INDICATOR READS HIGH. REPLACED WITH NEW PART FR 8045T BELL 28101 214ST DC CONTROL UNIT DEFECTIVE. GENERATOR WOULD NOT COME ON LINE. TIM 6957Y BELL 28139 214ST	REG. NO SERIAL NO ACFT MAKE SERIAL NO ACFT MODEL ENG MDL PROP MDL COMP MDL 2268G BELL 3603 206B3 INDICATOR READING 5 PSI HIGH. 22751 BELL 30627 206B3 OIL PRESSURE INDICATING HIGH. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 102PH BELL 30899 212 TARSYN INTERNALLY SHORTED. 27805 BELL 31106 212 INDICATOR INTERMITTENTLY STICKS AT 30 PSI. BELL 212 PANEL SEPARATED BEYOND LIMITS AT THIS STATION. 98W BELL 35100 212 ENG OIL TEMP PRESS INDICATOR READS HIGH. REPLACED WITH NEW PART FROM BELL. 8045T BELL 28101 214ST DC CONTROL UNIT DEFECTIVE. GENERATOR WOULD NOT COME ON LINE. TIME SINCE REPAIR 19 6957Y BELL 28139 214ST	REG. NO	REG. NO ACFT MAKE ENG MAKE PROP MAKE COMP MFG PART NAME PART COND SERIAL NO ACFT MODEL ENG MDL PROP MDL COMP MDL PART NUMBER PART LOC.	REG. NO	REG. NO ACFT MAKE ENG MAKE PROP MAKE COMP MFG PART NAME PART LOC. TSO OPER C

		ICE DIFFICU					10/12/97 TO 10/18/9		
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2436	6957Y	BELL				REGULATOR	FAILED		10/2/97
HEEA	28139	214ST				214175153105	DC GENERATOR		HEEA0011141
	VOLTAGE REGUI	LATOR DEFECTIVE. GE	ENERATOR WOULD	NOT COME ON LINE.					
3213	745H	BELL				CROSSTUBE	FAILED		8/23/97
	28197	214ST				214052052101	SKID GEAR		97ZZZX4349
	REAR CROSSTUE POUNDS.	BE FRACTURED DURING	G GROUND HANDLII	NG OF AIRCRAFT (RA	ISED ON WHEELS).	TOTAL WT. A/C, 13,535 I	POUNDS. ACCEPTABLE N	MOVEMENT	LIMITATION, 14,500
3417	6957Y	BELL				AIR DATA COMP	FAILED		10/2/97
HEEA	28139	214ST				214175421101	COCKPIT		HEEA0011162
	GROSS WEIGHT I	DOES NOT DECREASE A	AS FUEL LOAD DECR	REASES.					
6240	3897N	BELL				INDICATOR	DEFECTIVE		10/2/97
HEEA	28106	214ST				214175251107	ROTOR TACH		HEEA0011142
	ROTOR TACH NE	EEDLE WILL NOT GO AF	BOVE 70%.						
6710	5748M	BELL				AMPLIFIER ASSY	FAULTY		10/2/97
HEEA	28102	214ST				214074303115	CYCLIC		HEEA0011140
	AMPLIFIER FAUI	LTY. CYCLIC MOTORIN	NG WHEN ENGAGED						
7320	3897N	BELL	GE			HMU	MALFUNCTION		10/2/97
HEEA	28106	214ST	CT72A			6038T62P24	ENGINE		HEEA0011184
	HMU WON'T GO	INTO ECU LOCK OUT.							
7321	3897N	BELL	GE			ECU	MALFUNCTION		10/2/97
HEEA	28106	214ST	CT72A			7046M95G03	ENGINE		HEEA0011181
	ECU CAUSING EN	NGINE N2 TO GO RIGHT	T ALONG WITH TORG	QUE.					
7321	3897N	BELL	GE			ECU	MALFUNCTION		10/2/97
HEEA	28106	214ST	CT72A			7046M95G04	ENGINE		HEEA0011182
	DOES NOT RESPO	OND TO TRIM OR RPM V	WHEEL. NO POWER	CHECK READ OUT O	N ADC.				
3452	407MM	BELL				TRANSPONDER	MALFUNCTION		9/30/97
HEEA	53060	407				066010620000	COCKPIT ATC		HEEA0011114
	TRANSPONDER I	DEFECTIVE. WITH 6033	CODE IN TRANSPO	NDER, ATC RECEIVE	S 6733.				

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18	/97 ISSUE	97-42 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3452	402PH	BELL				TRANSPONDER	INOPERATIVE		10/7/97
HEEA	53159	407			KT76	066106200	COCKPIT ATC		HEEA0011212
	INOPERATIVE. N	O REPLY LIGHT. FOUN	ID DS5 BULB BAD. R	EPLACED DS5 BULB	AND ADJUSTED FR	EQUENCY TO SPECS. RE	EPAIRED UNIT. BENCH (CHECK GOOD	
6220	417PH	BELL				SEAT	CRACKED	841	9/30/97
HEEA	53038	407				407010107101	M/R		HEEA0011126
	LOWER CONE SE	AT CRACKED.							
6300	57416	BELL				CARBON SEAL	LEAKING	668	10/2/97
HEEA	53070	407				406340102101	M/R DRIVE		HEEA0011180
	PITTTED SEAL LI	EAKING.							
7933	402PH	BELL				INDICATOR	FAILED	117	10/6/97
HEEA	53159	407				407375004101	ENG OIL TEMP		HEEA0011211
	OIL TEMP SECTION	ON FAILED - DROPPED	TO ZERO IN FLIGHT.						
2160	3893P	BELL				MOTOR	FAILED		10/2/97
HEEA	33012	412				212073927001	TEMP CONTROL		HEEA0011168
	MOTOR WILL NO	T WORK.							
2210	21498	BELL				YAW CONTROL	DEFECTIVE		10/2/97
HEEA	36003	412				7001484	AFCS		HEEA0011157
	YAW CHANNEL I	KICKS IN ALL MODES.							
2210	7128R	BELL				TARSYN	DEFECTIVE		10/2/97
HEEA	36007	412				2593996333	AUTO FLIGHT		HEEA0011135
	TARSYN DEFECT	IVE. ADI ROLLS OVER	AND AFCS KICKS IN	PITCH.					
2312	3893S	BELL				TRANSCEIVER	FAILED		10/2/97
HEEA	33022	412				7001840913	COCKPIT VHF		HEEA0011177
	TRANSCEIVER PI	EGS ON HIGH SIDE. FA	ILED 5.1 ON SST.						
2430	3893N	BELL				CONTROL UNIT	FAILED		10/2/97
HEEA	33010	412				51509002R	DC SYS		HEEA0011150
	CONTROL UNIT I	KICKS GENERATOR OF	F LINE.						

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18/	97 ISSUE	97-42 ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2841	HL924	BELL				INDICATOR	FAULTY		10/2/97
HEEA	33197	412				214175257105	FUEL QTY		HEEA0011158
	FUEL QTY INDIC	ATOR FAULTY. CANNO	OT CALIBRATE DIGI	TAL READ OUT TO Z	ERO.				
3210	2149S	BELL				CAP ASSY AFT	DETERIORATED		10/2/97
HEEA	36002	412				412030437103	CROSSTUBE		HEEA0011136
	DETERIORATED	RUBBER DISC.							
3213	5759N	BELL				SKIDTUBE	CORRODED		10/2/97
HEEA	33002	412				412050015110	RT SKID		HEEA0011138
	SKID TUBE IS CO	RRODED. (BEYOND LI	MITS .035)						
3213	108X	BELL				SKIDTUBE	CORRODED		9/30/97
HEEA	33115	412				412050015109	LT SKID		HEEA0011122
	SKID TUBE CORE	RODED BEYOND LIMIT	S .034. SENT TO AIRE	BORNE SUPPLY, INC.	FOR INSPECTION A	ND REPAIR.			
3213	108X	BELL				SKIDTUBE	CORRODED		9/30/97
HEEA	33115	412				412050015110	RT SKID		HEEA0011123
	RT SKID TUBE CO	ORRODED BEYOND LIN	MITS .040.						
3213	22347	BELL				SKIDTUBE	CORRODED		10/2/97
HEEA	36005	412				412050015109	LT SKID		HEEA0011139
	LT SKID TUBE IS	CORRODED. (BEYONI	LIMITS .033)						
3414	HL923	BELL				INDICATOR	READS LOW		9/30/97
HEEA	33150	412				412075009105	COCKPIT AIRSPD		HEEA0011119
	AIRSPEED INDIC	ATES LOW OUT OF TOI	LERANCE BELOW 60	KNOTS.					
3421	21498	BELL				INDICATOR	FAILED		10/2/97
HEEA	36003	412				4020936903	3 AXIS GYRO		HEEA0011161
	ATTITUDE GYRO) WILL NOT REMAIN EF	RECT.						
3425	3893P	BELL				INDICATOR	DEFECTIVE		10/2/97
HEEA	33012	412				1113025	COCKPIT HSI		HEEA0011133
	NUMBERS ABOV	E COURSE HARD TO SE	EE WHEN SETTING IN	N PILOTS SEAT DUE T	O BLACK BAR LOV	V. NEW GAUGE WAS HIC	GHER UP.		

		ICE DIFFICU					10/12/97 TO 10/18/			ZAC-32
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. D	
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER C	CONT NO
3444	HL923	BELL				INDICATOR	READS LOW		9/30/97	
HEEA	33150	412				7000839904	RADAR ALTIMETE	R	HEEA00	11120
	INDICATION REA	ADS 30 DEGREES LOW;	LOOSE PART INSIDE	E; DH LAMP COVER M	IISSING.					
3454	6559Z	BELL				CONTROL	DEFECTIVE		10/7/97	
HEEA	36019	412				071121627	COCKPIT NAV		HEEA00	11214
	NAV CONTROL L CHECK GOOD.	ED READOUT TOO DIN	I FOR DAYLIGHT OF	PERATION. PERFORM	ED PRELIMINARY I	NSPECTION AND FOUND	V101 PHOTOCELL BAD.	REPLACED	PHOTOCELL.	BENCH
3457	2148K	BELL			GARMIN	GPS165	ERRORS		10/2/97	
HEEA	36001	412				0110010600	COCKPIT		HEEA00	11176
	GPS BEARING IN	TERMITTENTLY ERRO	NEOUS.							
5260	21498	BELL				ACTUATOR	FAILED		10/2/97	
HEEA	36003	412				212075418103	STEP		HEEA00	11170
	ACTUATOR INOP	PERATIVE WILL NOT M	OTOR UP OR DOWN	. SERIAL NUMBERS I	REMOVED ARE 1491	, 1738, AND 640.				
5260	22347	BELL				ACTUATOR	FAILED		10/6/97	
HEEA	36005	412				212075418105	STEP		HEEA00	11202
	STEP ACTUATOR	NOT FUNCTIONING.								
5240	3911L	BELL				INDICATOR	ERRATIC		10/2/97	
HEEA	33023	412				412075010111	TRIPLE TACH		HEEA00	11185
	ROTOR INDICAT	ION ERRATIC.								
7322	22347	BELL	PWA			FUEL CONTROL	CONTAMINATED	10912	10/2/97	
HEEA	36005	412	PT6T3B			324473511	ENGINE		HEEA00	11199
	8 TO 10% OSCILL CONTROL.	ATION AT 100% N2. FO	UND FUEL CONTRO	L CONTAMINATED V	VITH TAN COLOREI	O SAND LIKE MATERIAL.	CLEANED ALL ENGINE	AIR LINES A	AND REPLACE	ED FUEL
7714	2014K	BELL				INDICATOR	ERROR		9/30/97	
HEEA	33020	412				412075010109	TRIPLE TACH		HEEA00	11118
	3% SPLIT IN ENG	INE RPMS.								

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/13	8/97 ISSUE	97-42	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. D OPER C	ATE CONT NO
7714	3911L	BELL				INDICATOR	READS LOW		10/2/97	
HEEA	33023	412				412075010109	TRIPLE TACH		HEEA00)11186
	TRIPLE TACH RE	EADS 2% LOWER THAN	PILOT'S SIDE.							
6300	2FOR	BOEING				SHAFT	CRACK	2619	9/23/97	
CHIR	5	1072			A02D301110	A02D31473R	UPPER PIN HOLE	E	CHI1906	5
	THE SHOP FOR E		TIC PARTICLE INSPE	CTION REVEALED A	CRACK APPROXIM	CATION WAS DETECTED. IATELY 0.150 INCH LONG				
2621	2FOR	BOEING			KIDDE	FIRE BOTTLE	DISCHARGED		9/5/97	
CHIR	MJ005	234				898526	APU		97ZZZX	4342
3452	7170D	V-OFF BETWEEN 208 DE	JONELS TO 220 DEN	3201111112111 (31	,	TRANSPONDER	INOPERATIVE		10/6/97	
HEEA	S840	BOLKMS BO105S			KT76	066106200	COCKPIT ATC		HEEA00	11207
TIELT	TRANSPONDER I	INOPERATIVE. PERFOR			ED RESISTOR R441,	RESISTOR R447, TRANSI CROUT, PULSE WIDTH AN	STOR Q415, DIODE CR4		07 AND RESI	
3452	4302G	BOLKMS				TRANSPONDER	FAILED		10/6/97	
HEEA	S853	BO105S			KT76	066106200	COCKPIT ATC		HEEA00	011208
		INTERROGATION LIGH BENCH CHECK GOOD.	Γ INOPERATIVE. PEF	RFORMED PRELINAR	Y INSPECTION. FO	UND DS301 LAMP VERY I	DIM. REPLACED V301 I	PHOTOCELL. R	EPAIRED. A	ADJUSTED
3610	4302G	BOLKMS				VALVE	LEAK		10/2/97	
HEEA	S853	BO105S				97914211	BLEED SYS		HEEA00)11193
	BLEED VALVE L	EAKS, 20 DEGREE DRO	P IN TOT.							
6230	5029Н	BOLKMS				MAST	CORRODED	4496	10/7/97	
HEEA	S670	BO105S			4638001004	4619305032	M/R		HEEA00	011216
	CORRODED (FLA	ANGE AND BORE AREA	REPLACED WITH N	EW MAST.						

STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS			97-42	ZAC-327
REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DA	
911BR	BOLKMS				ROTOR MAST	CORRODED	4811	10/7/97	
S719	BO105S			4638001004	4638205005	M/R		HEEA00	11215
CORRODED (EDC	GE OF FLANGE AND BO	RES) REPLACED WI	TH NEW MAST.						
	BOLKMS				CLUTCH	MIS ASSEMBLED		10/2/97	
	BO105S				4638202007	FREEWHEEL		HEEA00	11164
FREEWHEEL CLU	UTCH ASSEMBLED INC	ORRECTLY.							
911BR	BOLKMS				SHAFT	CORRODED		10/2/97	
S719	BO105S				1053180301	T/R		HEEA00	11147
T/R SHAFT CORR	OSION AT ZONE D ANI	O SCORING AT ZONE	E F.						
54197	BOLKMS				INDICICATOR	FAILED		10/2/97	
S805	BO105S				DL41239	SINGLE RPM		HEEA00	11148
RPM GAUGE WIL	LL NOT GO PAST 5%.								
54197	BOLKMS				INDICICATOR	FAILED		10/2/97	
S805	BO105S				DL41239	SINGLE RPM		HEEA00	11149
INDICATOR DOE	S NOT INDICATE ABOV	/E 5%. EXCESSIVE F	RICTION ERROR.						
8199Ј	BOLKMS				VALVE	FAILED		10/2/97	
S826	BO105S				209072433101	OIL SOV		HEEA00	11169
VALVE WILL NO	T OPEN.								
401PH	BOLKMS				INDICATOR	FAILED		10/2/97	
7050	BK117A3				1179404203	AIR SPEED		HEEA00	11178
AIR SPEED NEED	DLE DOES NOT RETURN	TO ZERO ON INDIC	ATOR.						
134AE	BOLKMS				VALVE	FAILED		10/2/97	
7237	BK117B2				97914211	BLEED SYS		HEEA00	11192
NO. 1 ENGINE HA	AD HIGH TOT. BLEED A	IR VALVE FAILED.							
911LK	BOLKMS				ACTUATOR	LEAKING		9/30/97	
7068	BK117B2				741C000004	T/R		HEEA00	11115
ACTUATOR LEAD	KING BEYOND LIMITS.								
	REG. NO SERIAL NO 911BR S719 CORRODED (EDG FREEWHEEL CLU 911BR S719 T/R SHAFT CORE 54197 S805 RPM GAUGE WIL 54197 S805 INDICATOR DOE 8199J S826 VALVE WILL NO 401PH 7050 AIR SPEED NEED 134AE 7237 NO. 1 ENGINE HA 911LK 7068	REG. NO SERIAL NO ACFT MAKE SERIAL NO ACFT MODEL 911BR BOLKMS S719 BO105S CORRODED (EDGE OF FLANGE AND BO BOLKMS BO105S FREEWHEEL CLUTCH ASSEMBLED INCO 911BR BOLKMS S719 BO105S T/R SHAFT CORROSION AT ZONE D AND 54197 BOLKMS S805 BO105S RPM GAUGE WILL NOT GO PAST 5%. 54197 BOLKMS S805 BO105S INDICATOR DOES NOT INDICATE ABOV 8199J BOLKMS S826 BO105S VALVE WILL NOT OPEN. 401PH BOLKMS 7050 BK117A3 AIR SPEED NEEDLE DOES NOT RETURN 134AE BOLKMS 7237 BK117B2 NO. 1 ENGINE HAD HIGH TOT. BLEED A 911LK BOLKMS 7068 BOLKMS BOLKMS BOLKMS	REG. NO SERIAL NO ACFT MODEL ENG MDL 911BR BOLKMS S719 BO105S CORRODED (EDGE OF FLANGE AND BORES) REPLACED WT BOLKMS BO105S FREEWHEEL CLUTCH ASSEMBLED INCORRECTLY. 911BR BOLKMS S719 BO105S T/R SHAFT CORROSION AT ZONE D AND SCORING AT ZONE 54197 BOLKMS S805 BO105S RPM GAUGE WILL NOT GO PAST 5%. 54197 BOLKMS S805 BO105S INDICATOR DOES NOT INDICATE ABOVE 5%. EXCESSIVE F 81991 BOLKMS S826 BO105S VALVE WILL NOT OPEN. 401PH BOLKMS 7050 BK117A3 AIR SPEED NEEDLE DOES NOT RETURN TO ZERO ON INDICATA 134AE BOLKMS 7237 BK117B2 NO. 1 ENGINE HAD HIGH TOT. BLEED AIR VALVE FAILED.	REG. NO SERIAL NO ACFT MAKE ENG MDL PROP MDL 911BR BOLKMS S719 BO105S CORRODED (EDGE OF FLANGE AND BORES) REPLACED WITH NEW MAST. BOLKMS BO105S FREEWHEEL CLUTCH ASSEMBLED INCORRECTLY. 911BR BOLKMS S719 BO105S T/R SHAFT CORROSION AT ZONE D AND SCORING AT ZONE F. 54197 BOLKMS S805 BO105S RPM GAUGE WILL NOT GO PAST 5%. 54197 BOLKMS S805 BO105S INDICATOR DOES NOT INDICATE ABOVE 5%. EXCESSIVE FRICTION ERROR. 8199J BOLKMS S826 BO105S VALVE WILL NOT OPEN. 401PH BOLKMS 7050 BK117A3 AIR SPEED NEEDLE DOES NOT RETURN TO ZERO ON INDICATOR. 134AE BOLKMS 7237 BK117B2 NO. 1 ENGINE HAD HIGH TOT. BLEED AIR VALVE FAILED.	REG. NO SERIAL NO ACFT MAKE SERIAL NO ACFT MODEL ENG MDL PROP MDL COMP MDL 911BR BOLKMS S719 BO105S CORRODED (EDGE OF FLANGE AND BORES) REPLACED WITH NEW MAST. BOLKMS BO105S FREEWHEEL CLUTCH ASSEMBLED INCORRECTLY. 911BR BOLKMS S719 BO105S T/R SHAFT CORROSION AT ZONE D AND SCORING AT ZONE F. 54197 BOLKMS S805 B0105S RPM GAUGE WILL NOT GO PAST 5%. 54197 BOLKMS S805 BO105S INDICATOR DOES NOT INDICATE ABOVE 5%. EXCESSIVE FRICTION ERROR. 81991 BOLKMS S826 B0105S VALVE WILL NOT OPEN. 401PH BOLKMS 7050 BK117A3 AIR SPEED NEEDLE DOES NOT RETURN TO ZERO ON INDICATOR. 134AE BOLKMS 7237 BOLKMS 7237 BOLKMS 7068 BK117B2	SERIAL NO	REG. NO ACFT MAKE ENG MAKE PROP MAKE COMP MIG. PART NAME PART COND 911BR BOLKMS BOLIOSS 4638001004 4638205005 M.R 5719 BOLIOSS 4638001004 4638205005 M.R CORRODED (EDGE OF FLANGE AND BORES) REPLACED WITH NEW MAST: CLUTCH MIS ASSEMBLED BOLIAMS CLUTCH AGSEMBLED INCORRECTLY. MIS ASSEMBLED 911BR BOLKMIS SHAFT CORRODED 5719 BOLOSS SHAFT CORRODED 5719 BOLOSS INDICICATIOR FAILED 5719 BOLKMIS INDICICATOR FAILED 5805 BOLIOSS INDICICATOR FAILED 8806 BOLIOSS INDICICATOR FAILED SR05 BOLKMIS INDICICATOR FAILED INDICATOR DOES NOT INDICATE ABOVE 5%. EXCESSIVE FRICTION ERROR. VALVE FAILED 8826 BOLKMIS 10058 209072433101 OIL SOV VALVE FAILED 1179404203 AIR SPEED <	REG. NO ACET MAKE ENG MAKE PROP MAKE COMP MIC PART NAME PART COND TO SERIAL NO ACET MODEL ENG MDL PROP MDL COMP MDL PART NUMBER PART LOC. TSO 911BR BOUKMS 5719 BOUKMS 5719 BOUGS 1718 BOLKMS 5719 BOUGS 1728 BOLKMS 5719 BOUGS 1739 BOUGS 1739 BOUGS 1748 SHAFT CORRODED 1758 S865 BOUGS 1758 BOLKMS 1769 BOLKMS 1779 BOLKMS 1779 BOLKMS 1789 BOLKMS 1791 BOLKMS 1791 BOLKMS 1791 BOLKMS 1791 BOLKMS 1791 BOLKMS 1791 BOLKMS 1792 BOLKMS 1793 BOLKMS 1794 BOLKMS 1795 BOLKMS 1796 BOLKMS 1797 BOLKMS 1798 BOLKMS 1799 BOLKMS 1799 BOLKMS 1799 BOLKMS 1799 BOLKMS 1799 BOLKMS 1790 BOLKMS	REG. NO ACFT MAKE ENG MAKE PROP MAKE COMP MIG. PART NAME PART COND. TT DIFF. D.

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18/9	97 ISSUE	97-42 ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7250	117CW	BOLKMS	LYC			ROTOR ASSY	BLADE SHIFT	3265	6/12/97
R7MA	7125	BK117A4	LTS101650B1			414129001	POWER TURBINE	1837	97ZZZX4346
	ROTOR ASSY FA 8,268.7.	ILED SB LT101-72-10-01	53. EXCESSIVE IBPT	BLADE SHIFT. FAIL	ED Q-ROTOR 7.28 G	MIN2. REPLACED WITH U	USED UNIT, CORRECTED	PROBLEM.	PART TOTAL CYCLES,
7310	230Н	BOLKMS	LYC			FUEL MANIFOLD	LEAK		9/25/97
	7134	BK117A4	LTS101650B1			430137601	NR 1 ENGINE	960	97ZZZX4336
****		IN TUBING BETWEEN N VERHAUL. ALLIED SIG				OMPARTMENT. SUBMIT	TER STATED THE TUBING	G BETWEEN	NOZZLES SHOULD BE
7310	230H	BOLKMS	LYC			FUEL MANIFOLD	LEAK		9/25/97
	7136	BK117A4	LTS101650B1				NR 2 ENGINE	32	97ZZZX4337
	HIGH PRESSURE	LEAK AT BRAZE JOINT	T. FUEL SPRAYING I	N ENGINE COMPART	MENT. SUBMITTER	STATED BRAZE JOINT T	UBING SHOULD BE REPL	ACED AT O	VERHAUL.
6220	8047L	HUGHES				RING	MISINSTALLED		9/19/97
	470699	TH55A				269A1329	DROOP STOP		97ZZZX4341
****		NUAL INSPECTION, DISC O THIS INSPECTION.	COVERED THE DROC	OP STOP RING WAS P	REVIOUSLY INSTAI	LLED INVERTED. THE M.	AIN ROTOR HEAD WAS A	ASSEMBLED	THREE YEARS AND 60
6300	522FB	HUGHES				BEARING	SEAL CLIP FAILED	256	9/25/97
	LN002	500N			369A535041	369A5361	ORIDE CLUTCH		97ZZZX4338
	LOWER SEAL RE	TAINING CLIP FELL OU	T DURING FLIGHT.	FOUND DURING 100-	-HOUR INSPECTION				
6300	527FB	HUGHES				BEARING	SEAL CLIP FAILED	297	9/25/97
	LN007	500N				369A5361	ORIDE CLUTCH		97ZZZX4339
	LOWER BEARING	G SEAL CLIP FELL OUT	DURING FLIGHT. FO	OUND DURING 300-H	OUR INSPECTION.				
6220	159AC	SKRSKY				BRACKET BOLT	CRACKED		9/17/97
JYDR	64084	S64F			651001130080	6510311065102	M/R DAMPER	997	97ZZZX4347
			*			ON REVEALED A TOTAL RACKS ARE 0.040 INCH L			
2430	5435V	SKRSKY				DC CONTROL UNIT	DAMAGED		10/2/97
HEEA	760158	S76A				7655009006105	DC SYS		HEEA0011159
	DC CONTROL UN	NIT POSSIBLY DAMAGE	ED DUE TO PIN "H" T	HROUGH K2 RELAY	COIL RESISTANCE (ONLY 3 OHMS INSTEAD C	OF 50 10.		

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18/9	97 ISSUE	97-42	ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. I OPER (OATE CONT NO
3234	54C	SKRSKY				CONTROL VALVE	MISWIRED		9/15/97	
	760348	S76B				0911077004	LANDING GEAR		97 ZZZ	K4351
****	ARKWIN IND, IN THE GEAR, DISC	C., PN 0911077-004, SIKO OVERED WITH THE GE	ORSKY PN 76650-028 AR HANDLE IN THE	02-0911077-004, SIKOI DOWN POSITION, TH	RSKY PN 76650-0280 IE GEAR WOULD RE	2-104, SN 0557A WAS INS TRACT, AND EXTEND W	EPT THE GEAR FROM BEIN STALLED IN HELICOPTER /HEN IN THE UP POSITION ND THE GEAR OPERATED	. WHEN AT I. AFTER FU	TEMPTING T JRTHER INV	O OPERATE
3414	1546G	SKRSKY				INDICATOR	SLOW		10/2/97	
HEEA	760076	S76A				8502CS20LW	AIR SPEED		HEEA0	011156
	COPILOTS AIR SI	PEED INDICATOR 20 KM	NOTS SLOWER THAN	N PILOTS GAUGE.						
3421	1547D	SKRSKY				VERTICAL GYRO	FAILED		10/2/97	
HEEA	760077	S76A				7660002113103	COCKPIT AFCS		HEEA0	011163
	VERT GYRO CAU	JSING KICKING IN AFC	S PITCH CHANNEL.							
5330		SKRSKY				PANEL ASSY	MIS TRIMED		10/2/97	
HEEA		S76A				7620402005044	FUSELAGE		HEEA0	011166
	RECEIVED PANE	L HAD BEEN PREVIOUS	SLY LOCATED AND	OUTER EDGES TRIM!	MED TOO SHORT.					
6300	22342	SKRSKY				BEARING	EROSION		10/2/97	
HEEA	760096	S76A				SB7003102	M/R		HEEA0	011137
	BEARING EXCES	SIVE EROSION.								
6320	4253S	SKRSKY				INPUT HOUSING	CRACKED		10/7/97	
HEEA	760035	S76A			763510950004	7635109024041	M/R GR BOX		HEEA0	011217
	GR BOX INPUT H	OUSING CRACKED. RE	PLACED WITH NEW	INPUT HOUSING.						
6320	5435V	SKRSKY				INPUT HOUSING	CRACKED		10/7/97	
HEEA	760158	S76A			763510950004	7635109024041	GR BOX		HEEA0	011218
	GR BOX HOUSIN	G CRACKED. REPLACE	D WITH NEW INPUT	HOUSING.						
7600	22342	SKRSKY				AMPLIFIER	INOPERATIVE		10/2/97	
HEEA	760096	S76A				7690001880106	DROOP COMP		HEEA0	011155
	NR1 DROOP COM	IP AMPLIFIER INOPERA	ATIVE.							

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - HELI	COPTERS	10/12/97 TO 10/18	97 ISSUE	97-42	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	ONT NO
3452	40466	SNIAS				TRANSPONDER	FAILED		10/6/97	
HEEA	3004	AS350B2			KT76	066106200	COCKPIT ATC		HEEA001	1210
	SELECTOR KNOB	S SHOW FALSE PULSE	S WHEN TURNED.							
6520	350BZ	SNIAS				BEARING	SEPARATION	608	10/1/97	
HEEA	2653	AS350B2				350A33215300	T/R GR BOX		HEEA001	1127
	BEARING SEPARA	ATION.								
7250	6099P	SNIAS	TMECA			CIRCLIP	MISSING		9/17/97	
	2818	AS350B2	ARRIEL1D			4560119360	MO 3 BEARING		97ZZZX4	348
				· ·			NG POWER TURBINE GUI HOURS. ENG TT: 1,563.2		SSING. SUSPE	СТ
7532	350BZ	SNIAS	TMECA			BLEED VALVE	MALFUNCTION		9/30/97	
HEEA	2653	AS350B2	ARRIEL1D			9550158250	ENGINE BLEED		HEEA001	1117
	BLEED VALVE FI	LAGGING TOO SOON, P	OPPING AT LOW RPM	М.						

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
3530	5611D	ВЕЕСН	PWA			VALVE	BROKE		9/25/97
	BA316	E18S	R985AN14B			2433952	ENG CYL EXH	1460	97ZZZX4387
	EXHAUST VALVE	E BROKE DURING A FU	LL POWER APPLICA	TION. SUSPECT CAUS	SE MAY BE REDUCE	ED LEAD CONTENT IN FUI	EL.		
7261	3194P	BELL	ALLSN			OIL SUMP	COKED	9130	8/31/97
EOPA	45788	206L1	250C28				NR 6-7 BEARINGS	1101	EOPA9704
****	DROPPED FROM	115 PSI TO 30 PSI. WHII	LE LANDING, BOTH	READINGS DROPPED	TO ZERO. DURING	R OTHER ADVERSE COND G THIS TIME PERIOD, OIL T VED LAST BEARINGS FLO	TEMP AND TOT SHOWE	D NORMAL.	ON LANDING, NOTED
7313	50046	BELL	ALLSN			NOZZLE	MIS MFG		10/6/97
HEEA	45173	206L1	250C28B		23033185	23031866	NR 2 SEAL BORE		HEEA0011201
	RECEIVING INSPI	ECTION REVEALED: EX	CESSIVE RUNOUT .	020 ON NR2 NOZZLE	SEAL BORE.				
7314	2245Y	BELL	ALLSN			PUMP	SHAFT WORN	11881	10/2/97
HEEA	45751	206L1	250C28B			3881005	FUEL PUMP		HEEA0011198
	FOUND DRIVE SH	HAFT AND GEAR SPLIN	E WEAR.						
7320	6160Y	BELL	ALLSN			ACTUATOR	FAILED		10/2/97
HEEA	51609	206L3	250C30P			206062721109	ENG CONTROL		HEEA0011187
	ACTUATOR WILI	NOT MOTOR IN EITHE	ER DIRECTION.						
412	6161A	BELL	ALLSN			EXCITER	INTERMITTENT		10/2/97
HEEA	51611	206L3	250C30P			49522	ENGINE		HEEA0011194
	EXCITER INTERM	MITTENT SPARK.							
320	3897N	BELL	GE			HMU	MALFUNCTION		10/2/97
HEEA	28106	214ST	CT72A			6038T62P24	ENGINE		HEEA0011184
	HMU WON'T GO I	NTO ECU LOCK OUT.							
7321	3897N	BELL	GE			ECU	MALFUNCTION		10/2/97
HEEA	28106	214ST	CT72A			7046M95G04	ENGINE		HEEA0011182

ΛTA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
PER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
321	3897N	BELL	GE			ECU	MALFUNCTION		10/2/97
EA	28106	214ST	CT72A			7046M95G03	ENGINE		HEEA0011181
	ECU CAUSING EN	NGINE N2 TO GO RIGHT	ALONG WITH TORO	QUE.					
22	22347	BELL	PWA			FUEL CONTROL	CONTAMINATED	10912	10/2/97
EA	36005	412	PT6T3B			324473511	ENGINE		HEEA0011199
	8 TO 10% OSCILL CONTROL.	ATION AT 100% N2. FO	UND FUEL CONTRO	L CONTAMINATED W	VITH TAN COLORED	SAND LIKE MATERIAL. C	LEANED ALL ENGINE A	AIR LINES A	ND REPLACED FUEL
50	117CW	BOLKMS	LYC			ROTOR ASSY	BLADE SHIFT	3265	6/12/97
ΛA	7125	BK117A4	LTS101650B1			414129001	POWER TURBINE	1837	97ZZZX4346
	ROTOR ASSY FAI 8,268.7.	ILED SB LT101-72-10-01:	53. EXCESSIVE IBPT	BLADE SHIFT. FAIL	ED Q-ROTOR 7.28 Gl	MIN2. REPLACED WITH US	ED UNIT, CORRECTED	PROBLEM.	PART TOTAL CYCLES
10	230H	BOLKMS	LYC			FUEL MANIFOLD	LEAK		9/25/97
	7134	BK117A4	LTS101650B1			430137601	NR 1 ENGINE	960	97ZZZX4336
***		IN TUBING BETWEEN N VERHAUL. ALLIED SIG				DMPARTMENT. SUBMITTE	R STATED THE TUBIN	G BETWEEN	NOZZLES SHOULD BE
						DMPARTMENT. SUBMITTE FUEL MANIFOLD	R STATED THE TUBING	G BETWEEN	NOZZLES SHOULD BE 9/25/97
	REPLACED AT O	VERHAUL. ALLIED SIG	NAL SHOULD FIELD					G BETWEEN 32	
	REPLACED AT OV 230H 7136	VERHAUL. ALLIED SIG BOLKMS BK117A4	NAL SHOULD FIELD LYC LTS101650B1	FLEX HOSE MANIFO	LD ASAP.		LEAK NR 2 ENGINE	32	9/25/97 97ZZZX4337
10	REPLACED AT OV 230H 7136	VERHAUL. ALLIED SIG BOLKMS BK117A4	NAL SHOULD FIELD LYC LTS101650B1	FLEX HOSE MANIFO	LD ASAP.	FUEL MANIFOLD	LEAK NR 2 ENGINE	32	9/25/97 97ZZZX4337
10	230H 7136 HIGH PRESSURE	VERHAUL. ALLIED SIG BOLKMS BK117A4 LEAK AT BRAZE JOINT	NAL SHOULD FIELD LYC LTS101650B1 FUEL SPRAYING I	FLEX HOSE MANIFO	LD ASAP. MENT. SUBMITTER	FUEL MANIFOLD STATED BRAZE JOINT TUI	LEAK NR 2 ENGINE BING SHOULD BE REPI	32	9/25/97 97ZZZX4337 VERHAUL.
10	230H 7136 HIGH PRESSURE 733WT 17268613 ENGINE FAILED	BOLKMS BK117A4 LEAK AT BRAZE JOINT CESSNA 172N	LYC LTS101650B1 FUEL SPRAYING II LYC O320H2AD TO CHECK. PILOT R.	FLEX HOSE MANIFO N ENGINE COMPART AN ENGINE AT HIGH	LD ASAP. MENT. SUBMITTER BENDIX D2000 RPM AND LEANED	FUEL MANIFOLD STATED BRAZE JOINT TUI DISTRIBUTOR GEAR 10682014 ENGINE TO SEE IF PLUGS V	LEAK NR 2 ENGINE BING SHOULD BE REPI TEETH FAILED MAGNETO	32 .ACED AT O	9/25/97 97ZZZX4337 VERHAUL. 9/1/97 97ZZZX4327
10	230H 7136 HIGH PRESSURE 733WT 17268613 ENGINE FAILED	BOLKMS BK117A4 LEAK AT BRAZE JOINT CESSNA 172N PRE-TAKEOFF MAGNE	LYC LTS101650B1 FUEL SPRAYING II LYC O320H2AD TO CHECK. PILOT R.	FLEX HOSE MANIFO N ENGINE COMPART AN ENGINE AT HIGH	LD ASAP. MENT. SUBMITTER BENDIX D2000 RPM AND LEANED	FUEL MANIFOLD STATED BRAZE JOINT TUI DISTRIBUTOR GEAR 10682014 ENGINE TO SEE IF PLUGS V	LEAK NR 2 ENGINE BING SHOULD BE REPI TEETH FAILED MAGNETO	32 .ACED AT O	9/25/97 97ZZZX4337 VERHAUL. 9/1/97 97ZZZX4327

NUMBER. SUBMITTER STATED REQUIRE PRECISION AIRMOTIVE TO RECTIFY ALL THE CARBURETORS THEY HAVE PRODUCED THIS WAY OR REVISE AD 63-22-03 TO REFLECT THE

WHILE IN CRUISE FLIGHT, CRANKSHAFT BROKE WHERE NR 1 ROD THROW COMES OFF REAR OF NR 2 MAIN. AIRCRAFT ON FLOATS, MADE EMERGENCY LANDING ON DRY LAKE BED.

CRANKSHAFT

VAR

BROKE

NR 2 MAIN

CURRENT MANUFACTURING PROCESS.

CESSNA

U206G

CONT

IO520F

FLOATS SHEARED OFF, PLANE WENT UPSIDE DOWN, AND PLANE IS DESTROYED.

9412Z

U20606473

8520

9/20/97

97ZZZX4391

1382

DOMESTIC	SERVICE DIFFICIT	CTY REPORT SUMMARY	FNCINES
		THE REFERENCE SURVIVIANT	

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
8520	4811K	CESSNA	CONT			STUD ASSY	MISTORQUED		8/28/97
	P21000330	P210N	TSIO520P			642185A1	CRANKSHAFT	621	97ZZZX4330
	MISALIGNMENT, INSPECTION, REF	I.E., MAIN BEARING PA	ATTERN COVERING BLY, 99.6 HRS, PREVI	ONLY 50 PERCENT OF OUSLY ON 8-29-96, BY	F AREA, ALL FIVE J Y CUSTOM AIRMOT	DIS-ASSEMBLED. FOUN OURNALS. LOG BOOK EN IVE, TULSA, OK. W.O. NR NUAL.	TRY SHOWS PROPELLER	STRIKE, D	ISASSEMBLY,
8520	145ES	CESSNA	CONT			CRANKCASE	CRACKED	1719	10/1/97
	421B0143	421B	GTSIO520H				NR 2 CYL ATTACH	800	97ZZZX4379
	CRANKCASE CRA	ACKED BOTTOM NR 2 (CYLINDER ATTACH,	AFT .4375 INCH CYLI	INDER STUD.				
7240	84EA	CESSNA	PWA			GROMMET ASSY	BROKEN	6342	9/19/97
ISYA	5500484	550	JT15D4		31003061	310501601	COMB LINER	2843	97ZZZX4345
****						TO FALL INSIDE COMBUS ENGINE HAS BEEN DISAS			
7250	6099P	SNIAS	TMECA			CIRCLIP	MISSING		9/17/97
	2818	AS350B2	ARRIEL1D			4560119360	MO 3 BEARING		97ZZZX4348
				,		AT HOLDS REAR BEARING ALLED. A/C TT: 1,699.5 H			SSING. SUSPECT
7532	350BZ	SNIAS	TMECA			BLEED VALVE	MALFUNCTION		9/30/97
HEEA	2653	AS350B2	ARRIEL1D			9550158250	ENGINE BLEED		HEEA0011117

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	ORT SUMMA	ARY - COM	PONENTS	10/12/97 TO 10/18	6/97 ISSUE	7-42	ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DA	
3450	39PH	BEECH				ANTENNA LOOP	CORRODED		10/2/97	
HEEA	BL 3	200CBEECH				6222363001	VOR		HEEA001	1179
	CORROSION ON	ANTENNA. WEAK SIGN	NAL. SENT TO COLLI	INS AVIONICS FOR IN	NSPECTION AND RE	PAIR.				
3454	622DC	ВЕЕСН			COLLINS	R-NAV PWR SUPPLY	SHORTED		7/31/97	
DWHA	BB491	200BEECH			339R1B	NCS31A	COCKPIT		97ZZZX43	350
	REPLACEMENT A CREATED SMOK	AIRCRAFT AND MECHA	ANIC WERE DISPATO T BREAKER. SYSTEI	CHED. THE MECHANI M WAS DISABLED AN	IC TROUBLESHOT T	ADE AT FRESNO AIRPORT HE PROBLEM AND FOUND ER BANDED. OPS CHECK (THAT R-NAV NCS 31A	A INDICATOR	POWER SUPPL	LY HAD
2562	2758N	BELL			NARCO	ELT	MALFUNCTION		10/2/97	
HEEA	45267	206L1				ELT910	COCKPIT		HEEA001	1190
	ELT STAYS ON A	AND WILL NOT SHUT O	FF.							
3414	3181Y	BELL				INDICATOR	READS LOW		10/2/97	
HEEA	3772	206B3				8000	COCKPIT AIR SPD		HEEA001	1160
	AIR SPEED INDIC	CATES LOW OUT OF TO	LERANCE BELOW 80	0 KNOTS.						
3424	513EH	BELL				INDICATOR	INOPERATIVE		10/2/97	
HEEA	45421	206L1				9551A	COCKPIT T&B		HEEA001	1144
	T & B INDICATO	R INOPERATIVE. TIME	SINCE REPAIR 46:35							
3452	2163Y	BELL				TRANSPONDER	MALFUNCTION		10/6/97	
HEEA	3496	206B3				066106202	COCKPIT ATC		HEEA001	1204
		HEN SELECTED TO 015 INSTALLED Q415 HEA				HANGED. CLEANED CODI	NG SWITCHES. REPLA	CED BROKEN	N FACEPLATE	
3452	2270G	BELL				TRANSPONDER	MALFUNCTION		10/6/97	
HEEA	3610	206B3			KT76	066106200	COCKPIT ATC		HEEA001	1209
		IDENT LIGHT WEAK AN NG SWITCHES. BENCH	-	. VERIFIED WEAK RE	EPLY LIGHT PHOTO	DETECTOR V301. UNIT WA	AS ON FREQUENCY. RI	EPLACED V30)1 PHOTODETE	ECTOR.
3452	104PH	BELL				TRANSPONDER	MALFUNCTION		10/6/97	
HEEA	3622	206B3			KT76	066106200	COCKPIT ATC		HEEA001	1203
		FERENT CODE NUMBEI EPAIRED. BENCH CHEO		CODE. PERFORMED	PRELIMARY INSPEC	CTION, CLEANED WAFER	SWITCHES. REPAIRED	. REPLACED	C401 AND C402	2

DOME	ESTIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	ARY - COMI	PONENTS	10/12/97 TO 10/18/	97 ISSUE	7-42	ZAC-327		
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DAT	TE .		
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	NT NO		
3452	2278V	BELL				TRANSPONDER	LOW POWER		9/30/97			
HEEA	3632	206B3				C2080A	PULSE OSC		HEEA0011	121		
	TRANSPONDER LOW POWER OUT.											
3452	406EH	BELL				TRANSPONDER	FAULTY		10/6/97			
HEEA	45183	206L1			KT76	066106200	COCKPIT ATC		HEEA00112	205		
						DIRTY, POSSIBLE CAUSIN NEEDED. BENCH CHECK		. CLEANED S	WITCHES TO R	EPAIR.		
3452	1077A	BELL				TRANSPONDER	KNOB BROKEN		10/7/97			
HEEA	45382	206L1			KT76	066106200	COCKPIT ATC		HEEA00112	213		
	TRANSPONDER I SPECS.	KNOB BROKEN. PERFOI	RMED PRELIMINAR	Y INSPECTION, REPLA	ACED KNOB. BEGA	N BENCH CHECK AND FO	OUND REPLY LIGHT FLAS	SHING AND I	PULSE WIDTH C	OUT OF		
3452	31821	BELL				TRANSPONDER,	WONT TEST		10/6/97			
IEEA	51076	206L3			KT76	066106200	COCKPIT ATC		HEEA00112	206		
		RFORMED PRELINARY : CH CHECK GOOD.	INSPECTION, FOUNI	O V101 BAD, REPLACI	ED V101 CAVITY TU	IBE. REPAIRED. ALSO RE	EPLACED V301 PHOTOCE	ELL DUE TO E	BEING INOPERA	ATIVE.		
2210	102PH	BELL				TARSYN	SHORTED		10/2/97			
HEEA	30899	212				2593996333	AUTO FLIGHT		HEEA0011	152		
	TARSYN INTERN	ALLY SHORTED.										
2210	102PH	BELL				TARSYN	SHORTED		10/2/97			
HEEA	30899	212				2593996333	COCKPIT AUTO FL	Т	HEEA0011	151		
	TARSYN INTERN	ALLY SHORTED.										
417	6957Y	BELL				AIR DATA COMP	FAILED		10/2/97			
IEEA	28139	214ST				214175421101	COCKPIT		HEEA0011	162		
	GROSS WEIGHT I	DOES NOT DECREASE A	AS FUEL LOAD DECF	REASES.								
3452	407MM	BELL				TRANSPONDER	MALFUNCTION		9/30/97			
HEEA	53060	407				066010620000	COCKPIT ATC		HEEA0011	114		
	TD A NCDONDED I	DEFECTIVE. WITH 6033	CODE IN TRANSPO	NDER ATC RECEIVE	\$ 6733							

ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE
PER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT NO
452	402PH	BELL				TRANSPONDER	INOPERATIVE		10/7/97
EEA	53159	407			KT76	066106200	COCKPIT ATC		HEEA0011212
	INOPERATIVE. NO	O REPLY LIGHT. FOUN	ID DS5 BULB BAD. R	REPLACED DS5 BULB	AND ADJUSTED FR	EQUENCY TO SPECS. REI	PAIRED UNIT. BENCH C	CHECK GOOD).
210	21498	BELL				YAW CONTROL	DEFECTIVE		10/2/97
EEA	36003	412				7001484	AFCS		HEEA0011157
	YAW CHANNEL I	KICKS IN ALL MODES.							
210	7128R	BELL				TARSYN	DEFECTIVE		10/2/97
EEA	36007	412				2593996333	AUTO FLIGHT		HEEA0011135
	TARSYN DEFECT	IVE. ADI ROLLS OVER	AND AFCS KICKS IN	N PITCH.					
312	3893S	BELL				TRANSCEIVER	FAILED		10/2/97
EEA	33022	412				7001840913	COCKPIT VHF		HEEA0011177
	TRANSCEIVER PE	EGS ON HIGH SIDE. FA	ILED 5.1 ON SST.						
3414	HL923	BELL				INDICATOR	READS LOW		9/30/97
EEA	33150	412				412075009105	COCKPIT AIRSPD		HEEA0011119
	AIRSPEED INDICA	ATES LOW OUT OF TOI	LERANCE BELOW 60	KNOTS.					
421	21498	BELL				INDICATOR	FAILED		10/2/97
IEEA	36003	412				4020936903	3 AXIS GYRO		HEEA0011161
	ATTITUDE GYRO	WILL NOT REMAIN EF	RECT.						
425	3893P	BELL				INDICATOR	DEFECTIVE		10/2/97
HEEA	33012	412				1113025	COCKPIT HSI		HEEA0011133
	NUMBERS ABOV	E COURSE HARD TO SE	EE WHEN SETTING II	N PILOTS SEAT DUE T	TO BLACK BAR LOW	/. NEW GAUGE WAS HIGI	HER UP.		
144	HL923	BELL				INDICATOR	READS LOW		9/30/97
EEA	33150	412				7000839904	RADAR ALTIMETE	ER	HEEA0011120
	INDICATION REA	DS 30 DEGREES LOW;	LOOSE PART INSIDE	; DH LAMP COVER M	IISSING.				
154	6559Z	BELL				CONTROL	DEFECTIVE		10/7/97
EEA	36019	412				071121627	COCKPIT NAV		HEEA0011214
	NAV CONTROL L CHECK GOOD.	ED READOUT TOO DIN	I FOR DAYLIGHT OF	PERATION. PERFORM	ED PRELIMINARY I	NSPECTION AND FOUND	V101 PHOTOCELL BAD.	REPLACED	PHOTOCELL. BENCH

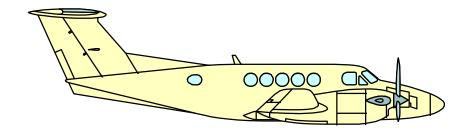
DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - COMI	PONENTS	10/12/97 TO 10/13	8/97 ISSUE	7-42 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3457	2148K	BELL			GARMIN	GPS165	ERRORS		10/2/97
HEEA	36001	412				0110010600	COCKPIT		HEEA0011176
	GPS BEARING IN	TERMITTENTLY ERRO	NEOUS.						
3452	7170D	BOLKMS				TRANSPONDER	INOPERATIVE		10/6/97
HEEA	S840	BO105S			KT76	066106200	COCKPIT ATC		HEEA0011207
						RESISTOR R447, TRANSIS ROUT, PULSE WIDTH ANI			
3452	4302G	BOLKMS				TRANSPONDER	FAILED		10/6/97
HEEA	S853	BO105S			KT76	066106200	COCKPIT ATC		HEEA0011208
		NTERROGATION LIGH BENCH CHECK GOOD.	T INOPERATIVE. PEF	RFORMED PRELINAR	Y INSPECTION. FOU	JND DS301 LAMP VERY D	OIM. REPLACED V301 P	HOTOCELL.	REPAIRED. ADJUSTED
3414	401PH	BOLKMS				INDICATOR	FAILED		10/2/97
HEEA	7050	BK117A3				1179404203	AIR SPEED		HEEA0011178
	AIR SPEED NEED	LE DOES NOT RETURN	TO ZERO ON INDIC	ATOR.					
6113	979SP	PIPER				BULKHEAD	CRACKED	4103	9/23/97
	7812015	PA31325				4393304	LT SPINNER		97ZZZX4392
	SPINNER BULKH	EAD CRACKED (LEFT E	BULKHEAD) FROM S	PINNER DOME ATTA	CH SCREW HOLE AF	ROUND AND DOWN BACI	K OF BULKHEAD, BUT	NOT THROUG	SH DOUBLER.
6113	282JN	PIPER				BULKHEAD	CRACKED	6557	9/24/97
	317552005	PA31350				4393303	SPINNER		97ZZZX4383
	BULKHEAD CRA	CKED WHERE STARTE	R RING GEAR ATTAG	CHES (FOUND TWO H	OLES CRACKED).				
6122	2121X	PIPER				FLYWEIGHT	ARM CRACK	1728	9/25/97
	347970180	PA34200T			E3	B41832	PROPELLER GOV		97ZZZX4381
	GOVERNOR FLY	WEIGHT ARM HAS A D	IAGONAL CRACK IN	IDICATION APPROXIN	MATELY .75 INCH LO	ONG. COULD NOT REMO	VE IT WITH LIGHT BUI	FFING.	
3414	1546G	SKRSKY				INDICATOR	SLOW		10/2/97
HEEA	760076	S76A				8502CS20LW	AIR SPEED		HEEA0011156
	COPILOTS AIR SI	PEED INDICATOR 20 KN	NOTS SLOWER THAN	N PILOTS GAUGE.					
3421	1547D	SKRSKY				VERTICAL GYRO	FAILED		10/2/97
HEEA	760077	S76A				7660002113103	COCKPIT AFCS		HEEA0011163

DOME	STIC SERV	ICE DIFFICU	ILTY REPO	RT SUMMA	ARY - COMI	PONENTS	10/12/97 TO 10/18	/97 ISSUE	7-42 Z	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE	2
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CON	ΓNO
	10155									
3452	40466	SNIAS				TRANSPONDER	FAILED		10/6/97	
HEEA	3004	AS350B2			KT76	066106200	COCKPIT ATC		HEEA001121	0
	SELECTOR KNOE	S SHOW FALSE PULSES	S WHEN TURNED.							

DOME	STIC SERV	ICE DIFFICU	JLTY REPO	RT SUMMA	RY - PROP	PELLERS 10	0/12/97 TO 10/18/97	ISSUE	97-42 ZA	.C-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DATE	
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CONT N	10
6111	6285A	CESSNA		HARTZL		BUSHING	BROKEN		7/15/97	
	33085	182		HC82V*			BLADE PITCH		97ZZX4388	
****	PILOT REPORTEI PITCH THAN OTH		VER LOSS. INVESTIC	GATION FOUND PITC	H CHANGE PHENOL	LIC BUSHING ON ONE BL	ADE BROKEN ALLOWIN	IG BLADE T	O MOVE TO LOWER	



INTERNATIONAL SERVICE DIFFICULTY REPORT



INTER	RNATIONAL	SERVICE D	IFFICULTY	REPORT S	UMMARY -	- AIRCRAFT	10/12/97 TO 10/18	/97 ISSUE	97-42	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER		TSO	O OPER CONT	
7601		CESSNA	PWA		WOODWAR	FLEX DRIVE SHAFT	CORRODED		7/15/97	
		550	JT15D4			1551104	ENG SYNC ACT		CA970722	021
	` '	OUBLESHOOTING OF ABLE WAS CORRODEI			M THE ACTUATOR	FLEX DRIVE SHAFT WAS	FOUND BROKEN INTO T	TWO PIECES A	T APPROXIM	IATELY

INTE	RNATIONAL	L SERVICE D	IFFICULTY	REPORT S	UMMARY	- ENGINES	10/12/97 TO 10/18	/97 ISSUE	97-42	ZAC-327
ATA	REG. NO	ACFT MAKE	ENG MAKE	PROP MAKE	COMP MFG	PART NAME	PART COND	TT	DIFF. DA	TE
OPER	SERIAL NO	ACFT MODEL	ENG MDL	PROP MDL	COMP MDL	PART NUMBER	PART LOC.	TSO	OPER CO	ONT NO
7414		CESSNA	LYC	MCAULY		MAGNETO	CRACKED	2793	7/10/97	
		172L	O320E2D	1C160CTM		4250	ACROSS COIL CAS	SE 823	CA970722	2015
	` /	NNUAL INSPECTION TO OKS, BUT WAS NOT CO		WAS FOUND CRACKI	ED ACROSS ITS CAS	SE. FAA AD 81-16-05 WHIC	CH PERTAINS TO THIS SU	UBJECT WAS	SIGNED OFF I	N THE
7414		PIPER	LYC		BENDIX	BREAKER POINTS	BROKEN	100	7/17/97	
		PA12	O320A2A		S4LN20	10357174	MAG		CA970728	8004
						N. THIS IS THE SECOND S EFOUND NOTCHES IN TH				

INTEDNATIONAL	SERVICE DIFFICULTY REPORT -	DDODEL I EDC
INIKKNAIIONALS	SKRVICE DIFFICULLY REPORT -	PROPELLERS

PWA

PT6A27

ENG MAKE

ENG MDL

RS	10/12/97 TO 10/18	3/97 ISSUE	97-42	ZAC-327
PART NAME	PART COND	TT	DIFF. D	ATE
PART NUMBER	PART LOC.	TSO	OPER (CONT NO
SWITCH	BROKEN		7/7/97	
KX5116	RT BETA		CA9707	22020

(CAN) AFTER TAKEOFF ENGINE LOST POWER, AND A LARGE THROTTLE STAGGER WAS NOTICED, ALONG WITH A SIGNIFICANT DIFFERENCE IN FUEL FLOW. PILOT SHUT OFF
AUTOFATHER SYSTEM AND NOTICED THAT THE BLUE BETA SYSTEM LIGHT WAS ON WITH A LARGE INCREASE IN ENGINE TORQUE AND LOWER PROP SPEED. INSPECTION FOUND

PROP MAKE

PROP MDL

HARTZL

HCB3TN3

COMP MFG

COMP MDL

THAT THE BETA MICRO SWITCH HAD FAILED CLOSED.

ACFT MAKE

ACFT MODEL

DHAV

DHC6300

ATA

6140

OPER

REG. NO

SERIAL NO



SERVICE DIFFICULTY REPORT SUMMARY

GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 01	0	0	0	0	0	0	1	0	1
AL 03	0	0	2	0	0	0	0	1	3
CA	0	0	0	0	0	1	3	0	4
CE 09	0	0	1	0	0	0	0	0	1
EA 03	0	0	1	0	0	0	0	1	2
EA 05	0	0	0	0	0	0	0	1	1
EA 07	0	1	0	0	0	0	2	0	3
EA 25	0	0	0	0	0	0	1	0	1
FS 01	0	0	0	0	0	0	1	0	1
GL 11	0	1	0	0	0	0	0	0	1
GL 15	0	0	0	0	1	2	0	0	3
GL 23	0	0	0	0	0	0	1	0	1
GL 25	0	0	0	0	0	0	1	0	1
NE 01	0	0	1	0	0	0	0	0	1
NM 09	0	1	0	0	0	3	0	0	4
NM 11	0	0	0	0	0	0	2	1	3
SO 11	0	0	2	0	0	0	0	0	2
SO 17	0	0	0	0	0	1	0	0	1
SW 03	0	15	32	0	11	22	19	0	99
SW 99	0	1	1	0	0	1	0	0	3
WP 01	0	0	1	0	0	0	0	0	1
WP 07	0	0	0	0	1	2	0	1	4
WP 13	0	0	1	0	0	0	0	1	2
WP 17	0	0	0	0	0	0	1	0	1
WP 23	0	1	0	0	0	0	0	0	1

WP 27

GE	ENERAL AVIATION	SUMMA	RY INDEX	X BY DIST	RICT OF	FICE	10/12/97 10 10/	/18/9/ ISSUE	97-42	ZAC-327
	DISTRICT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
	OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
	TOTALS	0	20	42	0	14	32	32	6	146

AIRCRAFT	AIRCRAFT			SDR TOTA	LS BY FAA A'	TA SYSTEM (CHAPTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
BEECH	200BEECH	0	0	1	0	0	0	0	0	1
BEECH	200CBEECH	0	0	1	0	0	0	0	0	1
BEECH	58	0	1	0	0	0	0	0	0	1
BEECH	65B80	0	0	1	0	0	0	0	0	1
BEECH	E18S	0	0	0	0	0	0	0	1	1
BELL	206B3	0	0	5	0	1	0	2	0	8
BELL	206L1	0	1	3	0	3	4	3	0	14
BELL	206L3	0	1	1	0	3	3	3	0	11
BELL	206L4	0	1	0	0	0	1	0	0	2
BELL	212	0	3	0	0	1	0	1	0	5
BELL	214ST	0	3	2	0	0	2	3	0	10
BELL	407	0	0	2	0	0	2	1	0	5
BELL	412	0	6	11	0	2	1	3	0	23
BOEING	1072	0	0	0	0	0	1	0	0	1
BOEING	234	0	1	0	0	0	0	0	0	1
BOLKMS	BK117A3	0	0	1	0	0	0	0	0	1
BOLKMS	BK117A4	0	0	0	0	0	0	3	0	3
BOLKMS	BK117B2	0	0	1	0	0	1	0	0	2
BOLKMS	BO105S	0	0	3	0	0	4	3	0	10
CESSNA	172L	0	0	0	0	0	0	1	0	1
CESSNA	172N	0	0	0	0	0	0	1	0	1
CESSNA	182	0	0	0	0	0	1	0	0	1
CESSNA	182Q	0	0	0	0	0	0	1	0	1
CESSNA	402B	0	0	0	0	0	0	0	1	1
CESSNA	402C	0	0	1	0	0	0	1	0	2
CESSNA	421B	0	0	0	0	0	0	0	1	1

GENERAL	AVIATION	SUMMAR	Y BY MA	ANUFACT	. MAKE A	ND MODEI	10/12/9	7 TO 10/18/97	ISSUE 97-42	ZAC-327
AIRCRAFT	AIRCRAFT			SDR TOTA	LS BY FAA A'	TA SYSTEM CH	APTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
CESSNA	550	0	0	0	0	1	0	2	0	3
CESSNA	P210N	0	0	0	0	0	0	0	1	1
CESSNA	U206E	0	0	1	0	0	0	0	0	1
CESSNA	U206G	0	0	0	0	0	0	0	1	1
DHAV	DHC6300	0	0	0	0	0	1	0	0	1
HUGHES	500N	0	0	0	0	0	2	0	0	2
HUGHES	TH55A	0	0	0	0	0	1	0	0	1
LUSCOM	8A	0	0	0	0	1	0	0	0	1
PIPER	PA12	0	0	0	0	0	0	1	0	1
PIPER	PA18150	0	0	1	0	0	0	0	0	1
PIPER	PA23250	0	0	1	0	0	0	0	0	1
PIPER	PA28181	0	1	0	0	0	0	0	0	1
PIPER	PA31325	0	0	0	0	0	1	0	0	1
PIPER	PA31350	0	0	0	0	1	1	0	1	3
PIPER	PA32300	0	1	0	0	0	0	0	0	1
PIPER	PA34200T	0	0	0	0	0	1	0	0	1
PIPER	PA46310P	0	0	2	0	0	0	0	0	2
SKRSKY	S64F	0	0	0	0	0	1	0	0	1
SKRSKY	S76A	0	1	2	0	1	3	1	0	8
SKRSKY	S76B	0	0	1	0	0	0	0	0	1
SNIAS	AS350B2	0	0	1	0	0	1	2	0	4
	TOTALS	0	20	42	0	14	32	32	6	146

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

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		2210	AUTOPILOT SYSTEM	2425	AC INDICATING SYSTEM
12 S	ERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
		2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
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2610	DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611	SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612	FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613	OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620	EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621	FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622	FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
07 5	LIGHT CONTROL C	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
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2701	CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710	AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
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2721	RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
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2730	ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731	ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740	STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741	STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742	STABILIZER ACTUATOR	30 10	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750	TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751	TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752	TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760	DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761	DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	22 I	<u>IGHTS</u>
2770	GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL	<u>33 L</u>	<u>10113</u>
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2820	ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL		
2821	ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822	FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823	FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL MARNING	3411	PITOT/STATIC SYSTEM
2824	FUEL TRANSFER VALVE	3150	CENTRAL BIGBLAY	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830	FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATION
2840	ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841	FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
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32 LANDING GEAR

29 HYDRAULIC POWER

26 FIRE PROTECTION

2844 FUEL PRESSURE INDICATOR

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3417 AIR DATA	COMPUTER	3700	VACUUM SYSTEM	5248	TAIL CONE DOORS
	ARNING SYSTEM	3710	VACUUM DISTRIBUTION SYSTEM	5250	FIXED INNER DOORS
	AND DIRECTION DATA SYSTEM	3720	VACUUM INDICATING SYSTEM	5260	ENTRANCE STAIRS
	GYRO & IND. SYSTEM			5270	DOOR WARNING SYSTEM
	NAL GYRO & IND. SYSTEM	<u>38 W</u>	/ATER/WASTE	5280	LANDING GEAR DOORS
	C COMPASS	3800	WATER & WASTE SYSTEM	<u>53 F</u>	<u>USELAGE</u>
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3425 INTEGRAT	ED FLT. DIRECTOR SYSTEM	3820	WASH WATER SYSTEM	5301	A ERIAL TOW EQUIPMENT
3430 LANDING	& TAXI AIDS	3830	WASTE DISPOSAL SYSTEM	5302	ROTORCRAFT TAIL BOOM
3431 LOCALIZE	R/VOR SYSTEM	3840	AIR SUPPLY (WATER PRESS. SYSTEM)	5310	FUSELAGE MAIN STRUCTURE
	OPE SYSTEM	45 C	ENTRAL MAINT. SYSTEM	5311	FUSELAGE MAIN FRAME
	AVE LANDING SYSTEM			5312	FUSELAGE MAIN BULKHEAD
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	P DISPLAY SYSTEM	40 4	IDDODNE AUVILIADY DOWED	5314	FUSELAGE MAIN KEEL
	AR DETECTION SYSTEM	<u>49 A</u>	IRBORNE AUXILIARY POWER	5315	FUSELAGE MAIN FLOOR BEAM
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	PROXIMITY SYSTEM	4940	APU START/IGNITION SYSTEM	5324	FUSELAGE FIXED PARTITIONS
	ISION AVOIDANCE SYSTEM (TCAS)	4950	APU BLEED AIR SYSTEM	5330	FUSELAGE MAIN PLATE/SKIN
3446 NON RADA	AR WEATHER SYSTEM	4960	APU CONTROLS	5340	FUSELAGE MAIN ATTACH FITTINGS
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3451 DME/TAC	AN SYSTEM	4980	APU EXHAUST SYSTEM	5342	STABILIZER ATTACH FITTINGS
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3500 OXYGEN S	SYSTEM			5410	MAIN FRAME (ON NACELLE/PYLON)
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	ER OXYGEN SYSTEM	5210	PASSENGER/CREW DOORS	5412	BULKHEAD/FIREWALL (NAC/PYLON)
	E OXYGEN SYSTEM	5220	EM ERGENCY EXIT	5413	LONGERON/STRINGER (NAC/PYLON)
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	IC DISTRIBUTION SYSTEM	5242	E/E COMPARTMENT DOORS		
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5525 11125W/(11		5244	ACCESSORY COMPARTMENT DOORS	5510	HORIZONTAL STABILIZER STRUCTURE
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5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
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5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
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5741 WING, FUSELAGE ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	<u> </u>	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6510 TAIL ROTOR DRIVE SHAFT	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6520 TAIL ROTOR GEARBOX	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE		7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR

<u>74</u>	<u>IGNITION</u>	<u>78 E</u>	NGINE EXHAUST	853
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	854 855
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	833
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR	
7412	EXCITER	7830	THRUST REVERSER	
7413	INDUCTION VIBRATOR			
7414	MAGNETO/DISTRIBUTOR	79 F	ENGINE OIL	
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>		
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)	
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)	
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)	
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER	
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR	
7510		7923	OIL SHUTOFF VALVE	
7520		7930	ENGINE OIL INDICATING SYSTEM	
7530		7931	ENGINE OIL PRESSURE	
7530		7932	ENGINE OIL QUANTITY	
		7933	ENGINE OIL TEMPERATURE	
7532				
7540	BLEED AIR INDICATING SYSTEM	80 8	STARTING .	
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM	
7600	ENGINE CONTROLS	8010	ENGINE CRANKING	
		8011		
7601		8012	ENGINE START VALVES/CONTROLS	
7602		0012	ENGINE CIMICI VALVEO/CONTROLO	
7603		81 7	TURBOCHARGING	
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM			
77	ENGINE INDICATING	8100	,	
7700		8110	- ,	
7700		8120	EXHAUST TURBOCHARGER	
7710		00	WATER IN ITOTION	
7711	,	82	WATER INJECTION	
7712		8200	WATER INJECTION SYSTEM	
7713	,			
7714		<u>83</u>	ACCESSORY GEARBOXES	
7720		8300	ACCESSORY GEARBOXES	
7721	,	0000	NOOLOGON GEMIDONEG	
7722		85	RECIPROCATING ENGINE	
7730				
7731		8500	ENGINE (RECIPROCATING)	
7732	ENGINE VIBRATION ANALYZER	8510		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	NC

RECIPROCATING ENGINE CYLINDER SECTION RECIPROCATING ENGINE REAR SECTION RECIPROCATING ENGINE OIL SYSTEM

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.